

CONTACT PERSONS

HISTORY

- 1952 Neeb-Optik GmbH founded
- 1997 Neeb-Optikai Rendszerek Kft. established in Hungary
- 1999 aquired by AVIMO group
- 2001 aquired by Thales Group renamed Thales Optische Systeme
- 2005 aquired by Candover Group renamed Qioptiq GmbH
- 2013 aquired by Excelitas Technologies Corp.

Facts and Figures

- Development according to customers special requirements
- Prototype and pre-serial production
- Manufacturing of precision micro-optical components and assemblies
- 160 multi-skilled employees in Germany and Hungary
- In house precision optician training center
- Certified ISO 9001:2008

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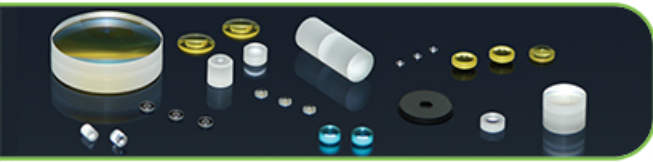


COMPETENCE IN MICRO OPTICS



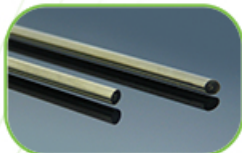
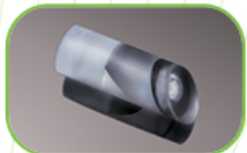
Optical Components

- Spherical lenses, doublets and triplets
- Plano parts
- All optical glasses and fused silica



Endoscope Optics

- Compact objectives with different angles and appropriate doublets:
DOV: 0°, 25°, 30°, 70°
FOV: 70° - 135°
- Rodlenses, negatives, prisms and T-windows for rigid endoscopes
- Diameter 1.0 to 6.5 mm
- Micro objectives (chip-on-the-tip) for flexible endoscopes
FOV 80°-140° for 1/6" and 1/10" sensors
- Assembling of image transmitters, complex mono- and bi-ocular eyepieces and mounted objectives



Micro Objectives

- FOV: up to 170°
- Diameter: ≥ 0.8 mm
- Pinhole diameter: ≥ 0.1 mm \pm 0.005 mm
- High precision field stop with chromium layer within the glued surface of the optical component, decentering ± 0.01 mm



OUR CAPABILITIES

Single Lens Production or CNC Grinding and Polishing

- Diameter: 0.3 to 60 mm
- Surface quality: ≥ 0.5 fringes
- Irregularity: ≥ 0.2 fringes
- Centering error: ≥ 1 min
- Center thickness: up to ± 0.01 mm
- Diameter tolerance: ≥ 0.005 mm



Centering

Coating

- Single layer
- Multi layer for VIS to NIR
- Beamsplitter for special wavelength
- Back- and frontside-mirrors with Al and Ag
- Double layer (V-coating)
- UV-coating



Cementing

- Diameter ≥ 0.5 mm (smaller diameter on request)
- Doublets, triplets, compact objectives and rod lens systems
- All typical UV and epoxy glues



Assembling / Inspection

Objectives for different Applications

Objectives for Machine Vision

- Focal length: 6.3 to 90 mm
- Luminous intensity: 2 to 7.6 mm
- Socket diameter: 12.5 to 25 mm
- Fixed aperture; C-Mount adapter available
- Modification on demand

Collimating Objectives

- Laser application
- Measurement devices
- VIS and NIR

Objectives for Inspection

- Fluid analysis
- Sewer inspection (field of view up to 186°)
- Furnace observation



Customized opto-mechanical Assemblies

- Development of optical systems according to customer-specific requirements
- Mechanical design
- Coating designs on demand
- Prototypes, pre-serial production and serial production
- Testing and documentation

